

IN THE CLAIMS (as originally filed):

Please amend the claims as follows:

1. - 33. (Canceled)

34. (New) Pore burner with a housing having at least one inlet or outlet for gas, air, and/or exhaust where the housing has at least one dimensionally-stable porous molded element comprising at least one of sintered metal powder and pressed metal wire mesh, the molded element having at least one of pore spaces in which reaction zones are present for flame development or a surface in which reaction zones are present for flame development to form a flat burner, wherein the molded element comprises at least one integral mounting element and/or fastening element through which at least one inlet of the dimensionally-stable molded element can be securely connected to at least one inlet tube and/or burner tube for air and/or gas, without requiring additional fastening elements.

35. (New) Pore burner of Claim 34, comprising at least two assembled molded elements lying one against the other, at least in sections, in form-fitted fashion, which are stably connected to each other in at least one tongue and groove fashion and bevel and groove fashion.

36. (New) Pore burner of Claim 34, wherein the mounting and/or fastening element comprises at least one of a groove, tongue, flange, or thread.

37. (New) Pore burner of Claim 34, wherein the molded element comprises a hollow element.

38. (New) Pore burner of Claim 37, wherein the molded element is a hollow cylinder.

39. (New) Pore burner of Claim 37, comprising at least one distribution device for deliberate alignment of part of the gas or air or gas/air mixture stream, arranged and/or shaped at least in sections in the hollow element of the pore burner so that part of the air, gas or gas/air mixture stream can be distributed so that an inside wall of the hollow element experiences a non-homogeneous pressure distribution.

40. (New) Pore burner of Claim 39, wherein the non-homogeneous pressure distribution occurs in the region of the distribution device.

41. (New) Pore burner of Claim 39, wherein the distribution device is a baffle plate.

42. (New) Pore burner of Claim 41, wherein the distribution device comprises an essentially metallic and/or ceramic material.

43. (New) Pore burner of Claim 39, wherein the distribution device is present in sections or fully in the hollow element and/or the burner tube.

44. (New) Pore burner of Claim 39, wherein the distribution device is fastened at least in sections to the burner tube and/or the hollow element.

45. (New) Pore burner of Claim 39, wherein the distribution device has no direct connection to the hollow element.

46. (New) Pore burner of Claim 39, wherein the distribution device has a deflection surface sloped relative to a center axis of the hollow element.

47. (New) Pore burner of Claim 46, wherein the distribution device is a baffle plate.

48. (New) Pore burner of Claim 46, wherein the hollow element is a cylinder.

49. (New) Pore burner of Claim 39, wherein a maximum cross-sectional surface of the distribution device in a direction of flow of the gas/air mixture is more than 50% of the cross-sectional surface of the hollow element in the region of the distribution device.

50. (New) Pore burner of Claim 35, wherein material densities of at least two adjacent molded elements are substantially equal.

51. (New) Pore burner of Claim 50, wherein the material density in the region of a connection site of two joined molded elements is substantially equal to the material density of at least one of these molded elements.

52. (New) Pore burner of Claim 34, wherein the surface of the molded element has at least one irregularity .

53. (New) Pore burner of Claim 52, wherein said irregularity encompasses at least one indentation and/or elevation that deviates from the base surface of the molded element.

54. (New) Pore burner of Claim 34, wherein a wall thickness of the molded element varies.

55. (New) Pore burner of Claim 34, wherein said pore burner is a flat flame burner.

56. (New) Pore burner of Claim 34, wherein the molded element has a compressed density in the range of about 2.5 g/cm^3 to about 5 g/cm^3 , at least in an area.

57. (New) Pore burner of Claim 56, wherein said compressed density is in the range of about 2.8 g/cm^3 to about 4.5 g/cm^3 .

58. (New) Pore burner of Claim 56, wherein said compressed density is in the area of a metal wire mesh.

59. (New) Pore burner of Claim 34, wherein the process metal element comprises a compressed wire mesh having a wire diameter being in the range of about 0.1 mm to about 0.4 mm.

60. (New) Pore burner of Claim 59, wherein the wire diameter is in the range of about 0.16 mm to about 0.28 mm.

61. (New) Pore burner of Claim 34, wherein the porous molded element comprises a compressed wire mesh including one to five metal wires.

62. (New) Pore burner of Claim 61, wherein the wire mesh includes one, two, or three metal wires.

63. (New) Pore burner of Claim 34, wherein the metal wire mesh is wound axially or radially before pressing.

64. (New) Pore burner of Claim 34, wherein surface loads in the range from 200 W/cm² to 300 W/cm² are accessible with said pore burner.

65. (New) Pore burner of Claim 64, wherein surface loads of 30 W/cm² to 260 W/cm² are accessible with said pore burner.

66. (New) Pore burner of Claim 34, wherein the metal powder and/or metal wire mesh includes at least one metal and/or metal alloy that forms an oxide layer.

67. (New) Pore burner of Claim 66, wherein said metal alloy contains at least one of chromium and aluminum.

68. (New) Pore burner system comprising a pore burner of Claim 34, an ignition device, and at least one feed tube for air and/or gas, which can be connected to an inlet of the pore burner and/or the ignition device.

69. (New) Pore burner system of Claim 68, wherein at least one inlet of the dimensionally-stable molded element is connected to at least one feed tube and/or burner tube for air and/or gas via a mounting and/or fastening element.

70. (New) Pore burner system of Claim 69, wherein said mounting and/or fastening element is a flange and/or a thread.

71. (New) Pore burner system of Claim 68, wherein the ignition device is arranged in the region of the outside of the hollow element at the corresponding inside of which the distribution device has the smallest spacing.

72. (New) Cooking appliance comprising at least one pore burner of Claim 34.

73. (New) Cooking appliance comprising a pore burner system according to Claim 68.

74. (New) Heating appliance comprising at least one pore burner of Claim 34.

75. (New) Heating appliance comprising at least one pore burner system of Claim 68.